IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent: : Group Art Unit: 3635

Michael Jerry Brown :

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Patent Number: 7,191,569 : Examiner: NGUYEN, Chi Q.

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Issued: March 20, 2007 : Confirmation No.: 4075

Title: TELESCOPING PIER : Attorney Docket No.: E0616-00001

FOUNDATION

ATTN: Certificate of Corrections Branch

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

FOR APPLICANT'S MISTAKE UNDER 37 C.F.R. 1.323

Dear Sir:

It is noted that an error of a clerical or typographical nature, or of minor character, which was not the fault of the U.S. Patent and Trademark Office, appears in the herewith patent and that such mistake occurred in good faith. This correction does not involve such changes in the patent as would constitute new matter or would require reexamination and is more fully described on the attached PTO/SB/44 Form - Certificate of Correction.

In the Letters Patent (copy of first page enclosed) received on 20 March 2007, item number (73) is entered as "Telecopier Foundations LLC, Atlanta, GA (US)", please enter item numbers (73) as follows:

(73) Assignee: Telepier Foundations LLC, Atlanta, GA (US)

In the Letters Patent (copy of page enclosed) received on 20 March 2007, Claim 20, Column 13, Line 6 is entered as "shaft portion of the wound anchor is driven into the", please enter Claim 20, Column 13, Line 6 as follows:

shaft portion of the ground anchor is driven into the

Applicant hereby submits Form PTO/SB/44 in duplicate with at least one copy being suitable for printing. Applicant requests a Certificate of Correction to correct the above errors which are errors of a clerical or typographical nature. The Commissioner is authorized to charge the amount of the processing fee for this request in the amount of \$100.00, and charge any additional fees in connection with this filing to Deposit Account No. 04-1679.

Respectfully submitted,

Date: March 20, 2007

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

		Page1 of1
PATENT NO. :	7,191,569	
APPLICATION NO.:	10/797,615	
ISSUE DATE :	03/20/2007	
INVENTOR(S) :	MICHAEL JERRY BROWN	
It is certified is hereby correct	that an error appears or errors appear in the above-identified patent and led as shown below:	that said Letters Patent
Item Number (7	3) is incorrect as it appears. Please enter item number (73) as follows:	
(73) Assignee:	Telepier Foundations LLC, Atlanta, GA (US)	
Column 13, Line	e 6 is incorrect as it appears. Please enter Column 13, Line 6 as follows:	
shaft portion of t	the ground anchor is driven into the	
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(12) United States Patent

(10) Patent No.:

US 7,191,569 B2

(45) Date of Patent:

Mar. 20, 2007

(54)	TELESC	OPING PIER FOUNDATION				
(75)	Inventor:	Michael Jerry Brown, Warner Robins, GA (US)				
(73)	Assignee:	Telecopier Foundations LLC, Atlanta, GA (US)				
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 21 days.				
(21)	Appl. No.	: 10/797,615				
(22)	Filed:	Mar. 10, 2004				
(65)		Prior Publication Data				
	US 2004/0231257 A1 Nov. 25, 2004					
	Related U.S. Application Data					
(60)	Provisiona	al application No. 60/453,323, filed on Mar.				

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(57)ABSTRACT

A telescoping pier foundation system (100, 100a, 100b) comprises generally an outer shell preferably made of a tough material, such as, a suitable polymer or a metal alloy, having an internal cavity (12) for receiving cementitious mixture. The outer shell comprises a stationary portion (10) and at least one longitudinally telescoping member (30) in longitudinal alignment with one another and connected to one another to achieve a given height, length or depth for forming a pier foundation. After the at least one telescoping member (30) is raised to meet a structural member (80, 80a) of a building and secured to the structural member, the internal cavity (12) of the outer shell is filled with cementitious mixture and cured to form a composite pier foundation.

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E02D 27/00

(51) Int. Cl.

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See application file for complete search history.

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(2006.01)

U.S. Cl. 52/293.3; 52/157; 52/126.6;

Field of Classification Search 52/292,

52/296; 52/298; 52/111; 52/738.8

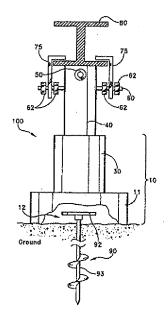
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52/157, 126.6, 263, 293.3, 295, 296, 298,

52/DIG. 11, 297, 294, 111, 738.1, 737.5,

52/123.1, 165, 126.5; 405/231, 232, 233,

41 Claims, 14 Drawing Sheets



for receiving the cementitious mixture:

ground

cavity in communication with the at least one fill port

a core of cured cementitious material substantially filling the internal cavity and at least one ground anchor having a top portion and a shaft portion, wherein the 5 shaft portion of the wound anchor is driven into the ground beneath the composite pier foundation and the top portion is imbedded in the cured cementitious

- 21. The composite pier foundation of claim 20, wherein 10 the stationary portion is made from polyvinylchloride.
- 22. The composite pier foundation of claim 20, wherein the at least one telescoping member is made from polyvinylchloride.
- 23. The composite pier foundation of claim 20, wherein 15 the stationary portion is made from a metal alloy.
- 24. The composite pier foundation of claim 20, wherein the at least one telescoping member is made from a metal
- 25. The composite pier foundation of claim 20, wherein 20 the stationary portion comprises:
 - a base; and

material.

- a column portion, wherein the top end opening is provided on the column portion.
- 26. The composite pier foundation of claim 25, wherein 25 the base is made from polyvinylchloride.
- 27. The composite pier foundation of claim 25, wherein the base is made from a metal alloy.
- 28. The composite pier foundation of claim 25, wherein 30 the column portion is made from polyvinylchloride.
- 29. The composite pier foundation of claim 25, wherein the column portion is made from a metal alloy.
- 30. The composite pier foundation of claim 20, wherein the cured cementitious mixture is concrete.
- 31. The composite pier foundation of claim 20, wherein the at least one telescoping member comprises a fastening system for securing the telescoping member to a structural member of a building.
- 32. The composite pier foundation of claim 31, wherein 40 the fastening system comprises one or more brackets for engaging the structural member of a building.
- 33. The composite pier foundation of claim 32, wherein the fastening system further comprises a connector for securing the one or more brackets to the telescoping member.
- 34. The composite pier foundation of claim 31, wherein the fastening system comprises an anchoring portion for anchoring the fastening system to the cementitious mixture filling the internal cavity.
- 35. A method of installing a telescoping pier foundation system, the method comprising:
 - driving at least one ground anchor having a top portion into the ground beneath a structural member of a building;
 - positioning an outer shell of the telescoping pier foundation system beneath the structural member of the building, the outer shell having an internal cavity, wherein the positioned outer shell covers the at least one ground anchor and the top portion of the at least one ground 60 anchor extends into the internal cavity of the outer
 - raising a telescoping member of the outer shell until the telescoping member contacts the structural member of the building;
 - securing the telescoping member to the structural member of the building;

14

filling the internal cavity of the outer shell substantially fully with a cementitious mixture; and

allowing the cementitious mixture to cure forming a composite pier foundation, wherein the top portion of the at least one ground anchor is embedded within the cured cementitious mixture.

36. The method of claim 35, wherein the step of securing the telescoping member to the structural member of the building requires the use of a fastening system that connects directly to the telescoping member.

37. A telescoping pier foundation system for forming a composite pier foundation filled with cured cementitious material for supporting a structural member of a building, the system comprising:

a stationary portion of a hollow structure having a solid sidewall and a top end opening;

- at least one telescoping member of a hollow structure having, a top open end and a bottom open end, in longitudinal alignment with the stationary portion, residing within the top end opening of the stationary portion and longitudinally movable within the top end opening and extendable through the top end opening;
- at least one fill port for receiving a cementitious mixture, wherein the stationary portion and the telescoping member form an outer shell defining an internal cavity in communication with the at least one fill port for receiving the cementitious mixture,
- wherein the stationary portion comprises a base and a column portion, wherein the top end opening of the stationary portion is provided on the column portion and a plurality of reinforcement ribs are provided joining the base and the column portion.
- 38. A telescoping pier foundation system for forming a composite pier foundation filled with cured cementitious material for supporting a structural member of a building, the system comprising:
 - a stationary portion of a hollow structure having a solid sidewall and a top end opening;
 - at least one telescoping member of a hollow structure having, a top open end and a bottom open end, in longitudinal alignment with the stationary portion, residing within the top end opening of the stationary portion and longitudinally movable within the top end opening and extendable through the top end opening;

at least one fill port for receiving a cementitious mixture, wherein the stationary portion and the telescoping member form an outer shell defining an internal cavity in communication with the at least one fill port for receiving the cementitious mixture; and

- at least one ground anchor having a top portion and a shaft portion, wherein the shaft portion of the ground anchor gets driven into the ground beneath the composite pier foundation and the top portion is imbedded in the cured cementitious material when the telescoping pier foundation system is installed.
- 39. A composite pier foundation for supporting a structural member of a building structure comprising:
 - an outer shell comprising:
 - a stationary portion of a hollow structure having a solid sidewall and a top end opening;
 - at least one telescoping member of a hollow structure having a top open end and a bottom open end, in longitudinal alignment with the stationary portion, residing within the top end opening of the stationary portion, longitudinally movable within the top end opening and extendable through the top end opening;